Mathematics Medium Term Plan (Linked to NCETM Curriculum Prioritisation Plans)



Autumn Term- Year 4

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8			
Unit 1 (3 week	rs)	•	Unit 2 (5 week	(s)	·	•	·			
Review of column addition and subtraction			Numbers to 10	· ·						
Identify the addends and the sum in column addition Use their knowledge of place value to correctly lay out column addition Add a pair of 2-digit numbers using column addition				ens, hundreds and ones 1,00	00 is composed of					
				,000 to explain common me	•					
				,000 to solve problems						
Add using column a	•			gies to add multiples of 100						
•	e of column addition to solve pro	blems	1	gies to subtract multiples of	100					
dd a pair of 2-digit	numbers using column addition	with regrouping in the	Use knowledge of c	alculation and common mea	sure conversions to so	lve problems				
ones column			Compose and decor	mpose four-digit numbers in	different ways					
Add a pair of 2-digit	numbers using column addition	with regrouping in the	Use strategies to ma	ake solving calculations more	e efficient					
ens column			Compare and order	four-digit numbers						
-	ddition with regrouping		-	by using knowledge of place	value, addition and su	ubtraction				
	d strategies to accurately and eff	ficiently calculate and	Explain what roundi	•						
check column addit			_	number to the nearest thous						
_	e of column addition to solve pro			number to the nearest hundr						
•	d and the subtrahend in column	subtraction	_	number to the nearest thous	•					
Subtract using colur	nn subtraction igit number using column subtra	ation with avalonaina		git numbers using a column a numbers using a column sub						
rom tens to ones	igit number using column subtra	ction with exchanging	_	ake solving calculations more						
	igit number using column subtra	ction with exchanging		100s' and '200s', 1,000 is co						
from hundreds to te	•	ction with exchanging			•					
ii oiii iiaiiai cas to te			Explain how many '500s' and '250s', 1,000 is composed of							
Evaluate the efficier	ncy of strategies for subtraction				P					
	Week 10	Week 11	Week 12	Week 13		Week 14	Week 15			
Week 9	Week 10	Week 11 Unit 4 (4 weeks		Week 13		Week 14	Week 15 Unit 4 ctd			
Week 9 Unit 3 (2 week	Week 10	Unit 4 (4 weeks))	Week 13		Week 14	Unit 4 ctd			
Week 9 Unit 3 (2 week Perimeter	Week 10	Unit 4 (4 weeks) 3,6,9 Times Tab	les			Week 14				
Week 9 Unit 3 (2 week Perimeter A regular polygon h	Week 10 (S) as sides that are all the same	Unit 4 (4 weeks) 3,6,9 Times Tab Represent counting in	les threes as the three til	mes table		Week 14	Unit 4 ctd 3,6,9 Times Tables			
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Week 9 Unit 3 (2 week Perimeter A regular polygon hength and interior a Perimeter is the diswo-dimensional sh	as sides that are all the same angles that are all equal in size tance around the edge of a	Unit 4 (4 weeks) 3,6,9 Times Tab Represent counting in Explain the relationsh	les threes as the three tii p between adjacent n three times table to s sixes as the six times	mes table nultiples of three olve problem table			Unit 4 ctd 3,6,9 Times Tables			
Week 9 Unit 3 (2 week Perimeter A regular polygon h ength and interior a Perimeter is the dis- two-dimensional sh Different shapes cal	as sides that are all the same angles that are all equal in size tance around the edge of a ape in have the same perimeter	Unit 4 (4 weeks) 3,6,9 Times Tab Represent counting in Explain the relationsh Use knowledge of the Represent counting in	les threes as the three tii p between adjacent n three times table to s sixes as the six times ip between adjacent n	mes table nultiples of three olve problem table nultiples of six			Unit 4 ctd 3,6,9 Times Tables (Times Tables			
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Week 9 Unit 3 (2 week Perimeter A regular polygon h length and interior a Perimeter is the dist two-dimensional sh Different shapes car Perimeter is measur be found by countin Perimeter can be cat the side lengths of a The perimeter of a raddition and multip Unknown side lengt perimeter and know The perimeter of a radal calculated by multip The side length of a	as sides that are all the same angles that are all equal in size tance around the edge of a ape in have the same perimeter red in units of length and can ag units alculated by adding together a 2D shape rectangle can be calculated by lication this can be calculated from an side lengths regular polygon can be oblication	Unit 4 (4 weeks) 3,6,9 Times Tab Represent counting in Explain the relationsh Use knowledge of the Represent counting in Explain the relationsh Use knowledge of the Use known facts from Explain the relationsh Use knowledge of the Represent counting in Explain the relationsh Explain the relationsh Use known facts from Explain the relationsh Explain the relationsh Explain the relationsh Explain the relationsh	threes as the three tilip between adjacent in three times table to sixes as the six times ip between adjacent in six times table to solv the five times table to petween multiples or relationships between innes as the nine time ip between adjacent in the ten times table to petween adjacent in the ten times table to ip between multiples or ip between multiples or ip between pairs of these for divisors of three	mes table nultiples of three olve problem table nultiples of six re problems of three and multiples of six of three and multiples of six in the three and six times table nultiples of nine (1) nultiples of nine (2) o solve problems involving the of three and multiples of nine three and multiples of nine of three and multiples of nine three and nine times table face	e six times table les to solve problems e nine times table e		Unit 4 ctd 3,6,9 Times Tables (Times Tables			

Mathematics Medium Term Plan (Linked to NCETM Curriculum Prioritisation Plans)



Spring Term- Year 4

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7				
Unit 5 (2 weeks)		Unit 6 (5 weeks)								
7 times table and patterns Represent counting in sevens as the 7 times table Explain the relationship between adjacent multiples of seven Use their knowledge of the 7 times table to solve problems Identify patterns of odd and even numbers in the times tables Represent a square number Use knowledge of divisibility rules to solve problems		Explain what each factor Explain how each part of Explain where zero can be Partition one of the factor Explain which is the most Use knowledge of distribe Use knowledge of distribe Explain the relationship be Explain why a zero can be Explain why a zero can be Explain why the final digit Explain why the final digit Explain why the seron can Explain why the last two Explain why the last two Use knowledge of the control Use knowledge of the control Explain how making a fact Explain	Understanding and manipulating multiplicative relationships Explain what each factor represents in a multiplication equation Explain how each part of a multiplication and division equation relates to a story Explain where zero can be part of a multiplication or division expression and the impact it has Partition one of the factors in a multiplication equation in different ways using representations (I) Partition one of the factors in a multiplication equation in different ways using representations (II) Explain which is the most efficient factor to partition to solve a multiplication problem Use knowledge of distributive law to solve two-part addition and subtraction problems, efficiently Use knowledge of distributive law to calculate products beyond known times tables facts Explain the relationship between multiplying a number by 10 and multiples of 10 Explain why a zero can be placed after the final digit of a single-digit number when we multiply it by 10 Explain why a zero can be placed after the final digit of a two-digit number when we multiply it by 10 Explain why the final digit zero can be removed from a two-digit multiple of 10, when we divide by 10 Explain why the final digit zero can be removed from a three-digit multiple of 10, when we divide by 10 Explain why two zeros can be placed after the final digit of a single-digit number when we multiply it by 100 Explain why two zeros can be placed after the final digit of a single-digit number when we multiply it by 100 Explain why the last two zeros can be removed from a four-digit multiple of 100 when we divide it by 100 Explain why the last two zeros can be removed from a four-digit multiple of 100 when we divide it by 100 Explain why the last two zeros can be removed from a four-digit multiple of 100 when we divide it by 100 Use knowledge of the composition of 100 to multiply by 100 in different ways Explain how making a factor 10 times the size affects the product Explain how making the dividend 10 times the size affects the quot							
Week 8	Week 9	Week 10	Week 11	Week 12	Week 13					
Unit 7 Coordinates (2 weeks) Give directions from one position to another Move objects including polygons on a grid according to directions, and mark new position Describe translations of polygons drawn on a square grid Draw polygons specified by translations Mark points specified as a translation from the origin Mark the position of points specified by coordinates in the first quadrant of a coordinate grid, and write coordinates for already-marked points Draw polygons specified by coordinates in the first quadrant Tanslate polygons in the first quadrant		8 Times Table — 9 2.7 (Revision from 11, 12 Times Tab Unit 2.11	m Y3)	Termly Assessments - NFER	Statistics Constructing and presenting data using appropriate graphical methods including bar charts and time graphs					

Mathematics Medium Term Plan (Linked to NCETM Curriculum Prioritisation Plans)



Summer Term- Year 4

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7				
Unit 8 (1 week)	Unit 9 (5 weeks	<u>;</u>)		•						
Review of	Fractions great	er than 1								
Fractions	· ·	ss quantities made up of bo								
Identify a whole and the		ty made up of whole numb								
parts that make it up		pose quantities made of winge of number lines and exp	<u>«</u>							
Explain why a part can only be defined when in	•	marked but unlabelled nun	E Z							
relation to a whole	·	of numbers on a number I	<u> </u>							
Identify the number of		nixed numbers using fraction in the water of the mixed numbers when the water in th				Termly Assessments - NFER				
equal or unequal parts in a	'	nixed numbers when the w		erator of the fractional par	t is the same	шe				
whole Identify equal parts when		es about the order they solv		,		ISS				
they do not look the same		es about the order they solv				SSE				
Explain the size of the part		a mixed number and an im om an improper fraction to				₹ .				
in relation to the whole Construct a whole when		a quantity from an imprope	٠.	•		Ē				
given a part and the	· ·	oper fraction is converted in	, ,	nit)		e.				
number of parts	Explain how a mixed Add mixed numbers	number is converted into a	n improper fraction			_				
		ction from a mixed number	· (converting to an imprope	er fraction first)						
		nber from a mixed number								
	Use knowledge of sul	btraction to choose correct	and efficient approaches v	when subtracting mixed nu	mbers					
Week 8	Week 9	Week 10	Week 11	Week 12	Week 13					
<u>Unit 10 (</u> 2 weeks)		<u>Unit 11</u> (1 week)	<u>Unit 12</u> (2 weeks)		Fractions					
Symmetry in 2D shap		<u>Time</u>	Division with rem							
Complete a symmetrical patt		Follow link to	Interpret a division story							
Compose symmetrical shape congruent shapes	s from two	NCETM guidance	remainder and represent							
Investigate lines of symmetry	y in 2D shapes by	https://www.nc	remainder and represen							
folding paper shape cut-outs		etm.org.uk/class	Interpret a division story							
Find lines of symmetry in 2D	shapes using a	room-	remainder and represent							
	mirror Reflect polygons in a line of symmetry Resources/cp- Explain how the remainder relates to the divisor in a division equation									
Reflect polygons that are dis	•	year-4-unit-11-	Explain when there will a	and will not be a						
symmetry		time/	remainder in a division e	•						
		unie/	Use knowledge of division remainders to solve prob	•						
			Interpret the answer to a							

Year 4 Yearly Overview (Linked to NCETM Curriculum Prioritisation Materials)



	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15
Autumn	NCETM Unit 1 Review of column addition and subtraction			NCETM Unit 2 Numbers to 10,000			NCETM Unit 3 Perimeter		NCETM Unit 4 3,6,9 Times Tables		ables	Assessment	Times Tables ctd		
Spring	Un 7 times t	NCETM Unit 5 7 times table and patterns NCETM Unit 6 Understanding and manipula multiplicative relationship				nanipulati	_	NCETN 7 Coord	x8		8	Assessment	Statistics		
Summer	NCETM Unit 8 Review of fractions	NCETM Unit 9 Fractions greater than 1				Assessment		•	NCETM Unit 11 Time	Uni Divisio	ETM t 12 on with inder	Fractions (consolidation)			

Notes:

The 11 and 12 times tables are not covered by the prioritisation materials but will need to be covered in regular times table activities in preparation for the Year 4 multiplication check. NCETM Unit 2.11 provides support for this.

'Constructing and presenting data' is not covered by the prioritisation materials and ideally can be addressed in the foundation subjects in a relevant context such as science or geography.